

Name: _____

Division in Different Forms

Period: _____ Date: _____

Transition to High School Mathematics

Fill in the blank boxes with the appropriate form of division.

$A \div B = C$	$A \times \frac{1}{B} = C$	$A(\frac{1}{B}) = C$	$\frac{A}{B} = C$
Elementary School	Middle to High School	High School	High School
$16 \div 4 = 4$	$16 \times \frac{1}{4} = 4$	$16(\frac{1}{4}) = 4$	$\frac{16}{4} = 4$
$12 \div 4 = 3$	$12 \times \frac{1}{4} = 3$	$12(\frac{1}{4}) = 3$	$\frac{12}{4} = 3$
$8 \div 4 = 2$			
	$4 \times \frac{1}{4} = 1$		
		$0 \times \frac{1}{4} = 0$	
			$\frac{-1}{4} = -0.25$

Any integer $\llbracket \dots -3, -2, -1, 0, +1, +2, +3 \dots \rrbracket$ can be written as a fraction by dividing by 1.	$-7 = -\frac{7}{1} = \frac{-7}{1}$	$5 = \frac{5}{1}$	$1 = \frac{1}{1}$
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Transform division by a fraction into multiplication by the reciprocal of the fraction	
$2 \div \frac{3}{5} \equiv 2 \times \frac{5}{3}$	$\frac{2}{\frac{3}{5}} \equiv 2 \div \frac{3}{5} \equiv 2 \times \frac{5}{3}$
$2 \times \frac{5}{3} = \frac{2}{1} \times \frac{5}{3} = \frac{2 \times 5}{1 \times 3} = \frac{10}{3}$	
$7 \div \frac{1}{3} \equiv 7 \times \frac{3}{1}$	